



**ECP DRIVE** had raised \$113,000 contributed by payroll deduction or cash donations as the Lab News went to press this week. The total represents returns from 85 per cent of Sandia employees. Above committee members M. D. Tucker (4131), left, and Josephine Norwood (5511), right, check in ECP cards from Captain J. R. Spence (4345) who led the drive in the Purchasing organization.

# Health Care Plan Enrollment Period Coming in November

Reopening of the enrollment period for Sandia's Health Care Plan will be held during the month of November for persons not already signed up or for those wishing to add dependency coverage.

The concentrated drive by Services and Benefits Division 3122 to have all employees covered under the Health Plan will include letters to non-participants explaining advantages of the Plan and personal discussions when requested.

This is the second time an enrollment period has been held since the Plan started May 1, 1958. There are already 5428 employ-

ees and 38 retired Sandians enrolled under the Health Care Plan. The November reopener is aimed at those 1132 employees still covered under the old hospital-surgical plan and 1600 others who are not enrolled under either plan.

New employees are given 31 days in which to join the Health Care plan. Employees already enrolled have the same length of time in which to add their spouse (if recently married) or a new baby. After 31 days these changes cannot be made except during the special yearly enrollment period.

Enrollment cards will be available from division supervisors at

both Sandia and Livermore Laboratories in late October with coverage becoming effective Dec. 1 under the Plan.

Health Care Plan premiums are paid through payroll deduction. Sandia Corporation pays \$2.00 toward the monthly premium for each participating employee. The employee's share is \$2.24 per month for himself, \$11.24 for employee and one dependent, or \$12.40 for employee and two or more dependents. The Plan is administered by The Equitable Life Assurance Society of the United States.

## Radio-Frequency Facility Among 3 Construction Jobs for Sandia Lab

Bids will be invited this month by the AEC for three construction projects at Sandia Laboratory.

Invitations to bid will be issued about Oct. 19 for installation of government-furnished partitions

and lab equipment in Bldg. 861. This contract is one of the final steps in the completion of Sandia's new three-story environmental test building in Area I. Nov. 10 is the scheduled date for opening the new bids and the installation is to be completed within 100 days after the contractor receives notice to proceed from the AEC.

A new Radio-Frequency testing facility is planned for Area I to be located east of Bldg. 880. Bids will be invited Oct. 20. The facility will include a 50 sq. ft. concrete pad and a reinforced concrete room of approximately 370 sq. ft. Bids are scheduled to be opened Nov. 10. Work is to be completed within 112 days after the contractor receives notice to proceed. The facility will be used by Development (1000) organizations.

Permanent gate houses for gates 3, 4, 7 and 8 are planned. Invitation to bid will be issued about Oct. 26. The structures will be of steel frame construction on concrete slab with exterior curtain walls complete with utilities. Included in the gate house contract will be modifications to Bldgs. 904 and 907 in Area II. Work is to be completed within 120 days after the contractor receives notice to proceed from the AEC.

## Winter Schedule To Begin Oct. 26

Effective Oct. 26 Sandia Laboratory employees will go on the regular winter work schedule of 8 a.m. to 5 p.m. Second shift hours will be 5 p.m. to 1:30 a.m. Standard schedules for security guards will remain in effect. The noon hour will be the same, 12 to 1 p.m.

With the winter schedule, break periods for day shift workers will revert to 10-10:15 a.m. and 3-3:10 p.m.

Livermore Laboratory will remain on the 7:30 a.m. to 4:30 p.m. schedule.

## Livermore Lab Gives \$9000 to United Crusade

Livermore Laboratory employees contributed \$9360 to the United Bay Area Crusade, final tally of the campaign shows.

Of the 771 employees solicited 84.2 per cent contributed. The average gift of those participating was \$14.42.

"The three-day campaign was the most successful one yet conducted at Livermore Laboratory," according to Jim Brock (8224), chairman of the campaign. "Funds raised at Sandia will go far in supporting the work of the 89 agencies in Alameda County and other Bay Area agencies participating in the United Crusade. All of us can be proud of our achievement," Jim said.

## Maxon, Kubiak Elected Sandia Flood Directors

John Maxon (1544) and Edward Kubiak (2533) were elected directors of the Sandia Conservancy District in the City-County election last week.

Mr. Maxon will serve a six-year term and Mr. Kubiak will hold office for four years. They are both members of the Property Owners Protective Association which won all five seats on the Sandia Conservancy District.



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## Tech Writers Conference Here Oct. 30-31 Has Full Program, Sandians Participating

More than 100 tech writers from New Mexico, Colorado and Texas are expected to attend the first Southwestern regional convention of the Society of Technical Writers and Editors in Albuquerque Oct. 30-31.

A full program of speeches, workshops and films will be offered at the Civic Auditorium. A number of participating firms have also planned displays for the auditorium lobby.

The Friday morning session will

### Adm. Rickover Talk Here Oct. 22 Open To General Public

Adm. Hyman G. Rickover, considered father of the atomic submarine, will be in Albuquerque Oct. 21 and 22 as the guest of Sen. Clinton P. Anderson.

While here he will speak Oct. 22 to the Rotary Club at a noon meeting and to the general public at 7:30 p.m. in Johnson Gymnasium, UNM. He will also go to Los Alamos to see a reactor. The evening meeting is sponsored by the honors students at the UNM and a special invitation has been issued to Sandians by President Tom Popejoy. There is no charge for admission.



Mr. Hurley

Mr. Machen

Mr. Hollowwa

Mr. Claassen

feature a keynote address "More Effective Technical Communications for the Military User" by RADM. Courtney Shands, USN, Deputy Commander, Field Command, DASA.

G. J. Hurley (5323) will be moderator for a panel on "Does the Military Manual Communicate." Participants will include Sandians A. B. Machen, Director of Military Liaison, and G. C. Hollowwa, Manager, Military Publications Department (5320), members of the Joint Special Weapons Publications Board and others.

Afternoon speakers include R. S. Claassen, Manager, Physical Sciences Research Department (5150), on "New Frontiers for Technical Information" and Henry Vermillion (AEC-ALOO), who will discuss "Some Professional Problems of Communicating in a Secure Society."



Mr. Puder

Mr. Vermillion

"Operation Moonshine" is the title of the banquet speech to be given by Marvin A. Van Dilla of LASL.

In addition to the talks on Saturday there will be a showing of "The Sandia Story" and a workshop summary with Bill Puder (2631) serving as chairman.

Complete programs of speakers and activities as well as registration forms may be obtained from Howard Sieberman (5323).



**YOUNGSTERS AND GROWN-UPS** alike were fascinated by the Sandia "Sphere of Science" exhibit at the New Mexico State Fair Sept. 26-Oct. 4. A total of 110,586 persons visited Sandia's geodesic dome during the nine-day event, which topped last year's figure by almost 29,000. At peak periods about 2,300 people an hour saw

the displays. Picture above at left shows visitors listening intently to the telephone description of the Chaff Rockets. The center picture captures the interest of a family looking at the Natural Radiation display. Probably the most popular exhibit was Sandy Mobot. Operator H. N. Woodall (1626) is shown above right guiding

the Mobot, located outside the dome, by remote TV control. During the week following the fair the "Sphere of Science" was open for three nights for Corporation employees and their families. Approximately 1,000 persons visited the exhibit during that time. For the next couple weeks the exhibit will be open for arranged tours.

## Science Now Less A Stranger

Elsewhere in this issue of the **Sandia Lab News** it is reported that some 110,000 persons visited the Sandia Sphere of Science at the New Mexico State Fair this year. The total will probably not impress our eastern cousins until they realize that the population of the entire state is only about 830,000.

Hosts and hostesses who worked in the science exhibit brought back some interesting reports on reactions to the exhibit's scientific message. They ranged from "Neat!" through "Just Like Disneyland" and "Fascinating, but I don't understand it." There also was a strong expression of sincere appreciation for a new type of message being brought to New Mexicans. Science is becoming a leading interest and economic factor in New Mexico.

The change in diet from parimutuel betting, midway barkers and candy floss was welcome to a significantly large number of fair visitors. Their reaction to a science-for-the-man-on-the-street exposition was gratifying. The awe displayed by visitors when first seeing the unusual sights of the exhibit and the hours they spent working the do-it-yourself experiments were pleasant compensation to those who planned and built the exhibit. All of the science demonstrations were designed and built here at Sandia.

To Sandia employees who labored hard and long preparing the exhibit we can say confidently, "Your efforts are appreciated by the people of the State." By all reports it was indeed a job worth doing and well done.



SNOW NEVER COMES too early for (l to r) Jim Martindell, Keevin Moriarty and Ross Beach, who were among a group of Sandia skiers driving to Colorado to meet winter halfway.

### Sandianotes . . .

## Handful of Staunch Hearts Reserve Early Dates at Club for Parties

Resourcefulness is a prime requisite when it comes to lining up a choice date for organization Christmas parties. Since there are only a limited number of days during December and only three choice Saturdays before Christmas, it's necessary for the Coronado Club to open date reservations Oct. 1 on a first come, first served basis.

This year the situation got to a point where it looked like a ticket line for the World Series.

At 2:30 in the morning that cold and windy day Willard Converse (1620 TDSR) was the first to show up, followed shortly by O. J. Foster (3122-1) and a contingent from Purchasing; Marion Sliwinski, Walt Hammond and Betty Pickel.

By seven o'clock the situation was well in hand. Relief troops E. W. Shepherd (1610) and George Banos (3122-2) had arrived, Willard had a log of when the various representatives "clocked-in," coffee was being served, and all were waiting in the Club lobby.

At 9 a.m. the results of the wait were announced. The 1600 Christmas party will be Dec. 19 with 350-400 employees, families and guests expected at the buffet dinner-dance. An entertainment committee is working on further arrangements.

Organization 3100 will hold its dinner-dance Dec. 12 from 6 p.m. to 1 a.m. with dancing to the music of Al Hamilton's Band.

Purchasing organization 4300 chose Dec. 4 for their party with dancing to Lee Sprague's orchestra following the buffet dinner.

## Congratulations

### Born to:

Mr. and Mrs. John Sisneros (4152) a daughter, Lisa Therese, on Sept. 30.

Mr. and Mrs. L. M. Jercinovic (3440) a daughter, Jene Marie, on Sept. 30.

Mr. and Mrs. J. A. Beaudet (2544) a son, Andrew Thomas, on Sept. 27.

Mr. and Mrs. W. E. Kappus (1422-5) a daughter on Sept. 30.

Mr. and Mrs. R. C. Lindsey (1422-2) a son, John Walter, on Sept. 21.

Mr. and Mrs. Paul Dominguez (8213-2) a daughter, Deborah, on Sept. 25.

Mr. and Mrs. Ralph Cozine (8153-2) a daughter, Mary Clare, on Sept. 30.

Mr. and Mrs. Charles F. Drummond (8114-2) a daughter, Lori Amy, on Sept. 23.

Mr. and Mrs. Robert Scharrer (5243) a daughter, Lori Alice, on Oct. 3.

Mr. and Mrs. Don Williams (1612) a daughter, Mona Fay, on Sept. 29.

Mr. and Mrs. W. R. Hanlin (1611) a son, William Ruther, II, on Oct. 5.

Mr. and Mrs. J. E. Marion (8163-1) a son, Mark James, on Sept. 25.

Mr. and Mrs. Richard F. Turnbough (4254-2) a daughter, Laura Jo, on Sept. 29.

Mr. and Mrs. Ronald Brooks (4231-2) a son, Brian Dean, on Oct. 7.



RIVER ADVENTURERS (l to r) B. C. Benjamin, W. T. Smith, and G. A. Fowler, take to the air.

## Trio Has Air View of Spots Where They Ground Explored

On vacations during the past years a small group of Sandians has succumbed to the lure of the Colorado and other rivers and has spent many an hour floating down the water on rafts or splashing through rapids.

Three of the men: G. A. Fowler, vice president research; W. T. Smith (5256) and B. C. Benjamin (5216), decided that their view of the surrounding countryside had been a bit limited in some deep canyons, so they took to the air. Mr. Fowler piloted the four-place plane, of which he is co-owner, and the other two rode along for the scenery.

In general they retraced their previous routes: Albuquerque to Gallup, northwest to Canyon de Chelly, up over the weird sandstone formations that characterize Monument Valley, and finally to Mexican hat, the start of this year's boating trip.

They were interested in the aerial view of the four major rapids, known as the "goosenecks" of the San Juan River, and also their camping sites along the way.

### Early Winter

Five Sandians couldn't wait for snow to fall on New Mexico's ski areas. Keevin Moriarty (4121), Ross Beach (2541-1), Jim Manweller (1246), Marge Pope (2622) and Jim Martindell (1522) drove 460 miles to Arapaho Basin, Colo., Oct. 2 for a week-end of skiing on that state's record snowfall.

Snow pack at the 10,500 ft. elevation measured two feet with six inches more snow falling while the skiers were there.

Navajo Mountain and Rainbow Bridge at the junction of the San Juan and Colorado Rivers seemed less impressive from the air.

At Page, Ariz., they landed and rented a car to get a closer look at construction on the Glen Canyon Dam. The trio stopped overnight at Kanab, Utah, location spot for many Western movies, before returning to Albuquerque.

### Barking Dog Saves Car

Hugh Odell (8121-3) was convinced his dog was barking up the wrong tree at two o'clock one morning but he crawled out of bed anyway to investigate. He found a prowler pushing his car out of the garage. A few shouts later the prowler disappeared in the darkness leaving behind the car and two ice cream bars he had taken from Hugh's deep freeze.

### Morrison Speaks

Among busy Sandia speakers is Don Morrison (5126). He recently appeared before the Albuquerque Junior League as member of a panel on "Needs of the School System" and also spoke to the Thunderbird Branch of the 20-30 Club on "Automatic Computers."

### Strike!

Doreen Buck (4423-1) bowled a 205 game with the Kachina Doll League recently, making her eligible for membership in the "200 Club."

## Sphere of Science Open to Employees Today, Saturday

The Sandia Corporation Sphere of Science exhibit at the Fairgrounds will be open today and Saturday from 2 to 6 p.m. to accommodate school groups and a tour by visiting doctors. Employees, their families and friends are invited to visit the geodesic dome during these periods.

## Livermore Christmas Dance Scheduled

December 13 has been set aside for Livermore Laboratory's annual Christmas dance at Castlewood Country Club. The cocktail hour will begin at 6 p.m. and dancing will begin at 8 p.m. Gordon Heche and his orchestra will play.

### Sick List

Wishes for a speedy recovery go to Bill Senn (3441-1), who has had a lengthy illness.

Co-workers in the Livermore typing pool wish a speedy recovery to Ramona Rothe and Sondra Hunter, both of 8212-3. Get well wishes are extended to Wanda Shult (8213-2), who has been ill for several weeks.

Wishes for a speedy recovery are extended to Carl Manaugh (4253-1) and Ernesto Martinez (4253-2), both of whom are convalescing after recent surgery.

The many friends of M. Sue Peters (2243) wish her a speedy recovery. She is now recuperating at home after recent surgery.

Wishes for a speedy recovery are sent to Goebel Renfro (2243-3) after an extended illness.

### Anniversary Wishes

Congratulations go to K. W. Seaver (4135) and his wife, who on Sept. 29 marked their 25th wedding anniversary.

### Welcome Back

Department 2711-3 is glad to see Edith Irwin back at work after recent surgery.

## Sympathy

To Bob Burgess (5213-1) for the death of his mother Sept. 23 in Sadieville, Ky.

To W. T. Price (2542) for the death of his mother in Kentucky recently.

To Bobbie Balanda (8212-3) for the death of her father recently in Chicago.

To W. A. McWhorter (8116-3) for the death of his mother-in-law recently.

To Victor D. Schaeffer (4253-3) for the death of his father-in-law in Kansas Sept. 26.

To Emiliano Baca (4574) for the death of his son in Albuquerque Oct. 7.



Ruth Cowham (3126)

## Take a Memo, Please

Files kept in order are a convenience. Office furniture kept in proper locations is not only a convenience, it is also a good safety practice.



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**John Timmons**  
... family protection ...



**Peter Fessia**  
... delicate operation ...



**L. E. Lamkin**  
... even in Ireland ...

## Seven Lab Tours Help Tell Of Sandia's Work to Visitors

More people have learned more about Sandia Corporation during the past month than ever before in a comparable time period. At the close of the nine-day New Mexico State Fair on Oct. 4, 110,586 persons had visited Sandia's "Sphere of Science" exhibit hall and seven recent tours of Corporation facilities have given an additional 400 an insight into the laboratory's work.

Three of these tours were evening visits to Sandia's 24 inch reflecting telescope. D. M. Fenstermacher (5224-1) hosted the groups of science students who viewed the moon, Saturn, Jupiter and star clusters. The classes which visited were: Tues., Oct. 6, Jackson Junior High School; Wednesday, Oct. 7, Valley High School; Friday, Oct. 9, a special group from Zia Elementary School. These visits were ar-

anged by F. H. Hannah (3132-2) and directed by R. C. Colgan (3431).

On Thursday, Oct. 8, Area III was visited by 80 members of the Rocky Mountain College Placement Association. Following the 40-minute tour, the group viewed "The Sandia Story" in Bldg. 815. Public Relations Division 3431 arranges all Sandia Laboratory tours.

Architectural engineers, attending a regional conference in Albuquerque, toured Area III and visited Sandia's "Sphere of Science" at the fairgrounds on Friday, Oct. 9. Almost 50 persons attended this tour.

The American College of Chest Physicians, which convened in Albuquerque the past week, toured Sandia on Thursday, Oct. 15. The 250-member group visited Area III, the solar furnace, the telescope and the Van de Graaff accelerator. Tomorrow the same group will spend several hours at Sandia's exhibit at the fairgrounds. "The Sandia Story" was shown daily at the Western Skies Hotel, headquarters for the physicians' conference.

Today about 50 members of the Rocky Mountain Section of the American Industrial Hygiene Association are scheduled to tour Area III and view "The Sandia Story." The group will be welcomed to Sandia by Dr. S. P. Bliss, Sandia Medical Director.

## Korean Bonus Available To Pennsylvania Vets

Pennsylvania veterans of the Korean Conflict are now entitled to a bonus if they can prove they had a residence address in the state of Pennsylvania at the time of their enlistment or induction.

Eligible veterans should contact the Commonwealth of Pennsylvania, Department of Military Affairs, Korean Conflict Veterans Compensation Bureau, Harrisburg, Pa.

# Grateful Sandians Report Why They Like Health Care Plan

Sandia's Health Care Plan has been in effect a little more than a year. Some 5428 employees have enjoyed protection under the plan from the tremendous financial burden of extended illness.

Here are some reasons why five Sandians are thankful they have Sandia's Health Care Plan.

### Sunk Without Plan

John Timmons (3122-2) sums up his experience: "I would have been sunk without the Health Care Plan. My claims have been on my five-year-old daughter, Susan. She was in the hospital eight times in one year and has had two major operations."

Last April Susan was taken to California where a world-renowned surgeon performed an operation. "She was in Cedars of Lebanon hospital in Los Angeles," John recalled, "and even a six-bed ward cost \$22 a day." Hospital, surgical and other medical expenses were close to \$2000 with Health Care Plan covering 80 per cent. John's wife and eight-year-old daughter are also covered by the plan.

### Undecided, Now Glad

Peter Fessia (4412-2) was undecided at first about signing up for Health Care Plan. Within two months he needed the plan and was glad he had joined. His seven-year-old son, Peter David, required a delicate operation for removal of a tumor from alongside his spinal cord; Mark, age 5, fell off his bike and X-rays were taken at a hospital to determine if there had been a serious head injury, and Mrs. Fessia gave birth to a third son last June. Medical expenses for the Fessia family totaled about \$3000 for the year, but their portion of the payment was only about 20 per cent, the rest was covered under Health Care Plan.

### Unique Claim

Perhaps one of the most unusual claims under Health Care Plan was that filed by L. E. Lamkin (5500). As previously reported in the Sandia Lab News L. E. "Les" Lamkin, Jr. underwent surgery in Cork, Ireland.

In order for Mr. Lamkin to pay for the expenses involved, funds were handled by banks in Germany, France, England and Ireland. The papers involved in this complicated fund transaction were later submitted with the insurance claim and, although it was necessary to deal through the insurance company's New York office, the reimbursement check was available within two weeks.

The hospital, surgical, medical and ambulance bills were settled on the same basis as if Les Jr. had been in a local hospital.

### Slow and Expensive Recovery

At Livermore Laboratory Lou Fisher (8121-1) also signed up for the Health Care Plan when it was initially offered. Less than five months later his wife underwent surgery and was hospitalized several weeks.

Her recovery was slow and over the past 12 months, Lou's doctor bills have been about \$4000 to



**W. A. Otero**  
... never sick before ...

\$5000. Says Lou, "We're mighty glad we had the plan, believe me!"

### Sudden Illness

W. A. Otero (2234) took out the plan when it was first offered. "No members of my family had ever been sick, but I felt it was foolish not to protect ourselves." There were no claims the first year under the plan, then last April Bill became ill. His physician suggested a three-day hospital check-up. Eighteen days later five physicians were still puzzled as to the diagnosis of his illness and an exploratory operation was performed which failed to reveal the trouble.



**Lou Fisher**  
... mighty glad ...

Two weeks later internal bleeding started and 23 pints of blood were given Bill before the bleeding stopped as suddenly as it had started. All told he was in the hospital 13 weeks and his surgical expenses and other extras totaled \$5406. "One month my pharmacy bill alone was \$200," Bill recalled.

About \$4270 of the costs were covered by the Health Care Plan. "I'm grateful," Bill said, "for the immediate attention given my claims. After the forms were filled out, I had the money within three to five days." Since Sept. 21 Bill has been back at work half days.

# Corporation Employees Awarded Ribbons In Numerous N. Mex. State Fair Judgings

Visitors to the New Mexico State Fair may not have realized it, but they were gazing at the hobbies and special interests of many Sandia Corporation employees.

The "Sphere of Science" was the official Sandia exhibit, but employees had their own "unofficial" showings in categories such as flowers, photography, model railroads, and hobbies. By the end of Fair week many of these entries were adorned with blue ribbons. Here are a few of the prize winners.

### Flowers

When it came to dahlia competition, especially dahlias, J. D. Mafit (3122-1), G. C. Hollowwa (5320) and Ivan Moore (5310) made virtually a clean sweep of top prizes.

John D. Mafit, three Best of Show awards, three Awards of Merit, and 48 first prizes.

G. C. Hollowwa, two Horticultural Sweepstakes, five Awards of Merit, and 41 first prizes.

Ivan Moore, one Horticultural Sweepstake, three Awards of Merit, and 29 first prizes.

Prize winners in other flower classes included:

J. E. Fesler (4152-1), first prize and two second prizes for roses,

first for pampas grass, third for Dutch Iris.

Lillian Bowers (4152-1), second for Gladiator rose, third for collection of three hybrid tea roses.

### Horses

A. I. Redlinger (2713) entered four Arabian horses in eight classes: Raasaama received first prize in Brood Mare class and a trophy; her two month old colt won second prize in 1959 Colt class; the pair won second prize in Mare and Colt class; Rogue Ama won fourth in 1958 Stallion class; Raasa won fourth in 1957 Filly class and fourth in Native Costume class; the three offspring won fifth in Get-of-Dam class.

### Fowl

Clarence Puthoff, (2232) with Birchen modern game chickens won the following prizes: Grand Champion male; Best Opposite Sex; first, second and third hen; first and second pullet; second cockrel; first and third male; third prize for young trio; second prize for old trio, and first prize for display.

### Jewelry

Robert L. Burgess (5213-1), first prize for professional jewelry.

### Sewing

Jody Van Dock (3441), first prize, second prize and two third

prizes in sewing category.

### Gems and Minerals

Merrill Murphy (1423), first prize for collection of cabochons.

Ellen C. Wood (2562), first prize for collection awarded blue ribbons prior to 1958.

### Photography (amateur division)

Leroy Hassebroek (4423), first for color transparencies.

Robert W. Hall (3462), third in color transparencies.

### Model Railroads

David Stea (1592), first prizes for old time car prior to 1900, "O" gauge scale freight cars, and miscellaneous car.

Rudolph Herrmann (5216), first prizes for "HO" gauge steam type switcher locomotive, box car, loaded freight car, and hopper car.

Everett E. Ard (5511), first prizes for "HO" gauge refrigerator car and tank car.

Wilson Hicks (2722), first prizes for "Hi-rail" diesel type locomotive, and freight car.

### Livestock

J. D. Shreve (5112), best Alpine goat doe, Junior Champion doe in Nubian division, and Senior Champion doe in Alpine division.

### Philately

William Cocke (1225), first prizes for U.S. 19th and 20th century postage stamp commemora-

tives.

Clarence E. Foster (2550), first prize for topical collection (personalities, arts or sciences) and award for most outstanding exhibit regardless of class or value.

### Numismatics

Roland O'Trimble (1224), first prizes for U.S. proofs and mint sets, uncirculated U.S. major and minor coins and sets, odd and curio money, and U.S. Confederate currency.

C. E. Katzenberger (4132), Grand Award and first prize in miscellaneous class for exhibit entitled "Reflection on the Cent."

Malcolm Groll (5151), first prizes for Indian and Lincoln penny sets, second prizes for buffalo nickels and Liberty walking half dollars, third prize for uncirculated Jefferson nickels.

R. C. Jackson (4421), first prize, three second prizes and one third prize for coin displays in five different classifications.

John Olson (4424-2), third prize for display of proof coins.

### Home Arts and Crafts

Bessie Passmore (4423-1), first prize for a crocheted bed spread.

Catherine Trimble (4423-1), third prize for an appliqued quilt.

Emily Makal (4135-1) first prize for an embroidered toaster cover.



**GRAND CHAMPION** Birchen modern game chicken and Best Hen at recent New Mexico State Fair are displayed by owners Mr. and Mrs. Clarence Puthoff (2232). Their chickens also took top honors when exhibited in the Tri-State Fair at Amarillo, Texas.

### Fred Magee Installed Committee Chairman

Sandia District Committee of the Boy Scouts of America last month installed Fred Magee (5313) as Committee Chairman for the coming year. Ralph Whitson (5521) will continue to serve as a Vice Chairman.

Five of the six committee members are also from Sandia Corporation. They are: Henry W. Moeding (4315), Robert D. Brooks (5331), Al Bythway (3420), E. E. Chester (5522) and C. L. Kassens (1247).

E. J. Smith (4211) will continue as Commissioner with the District Committee.

### Model Railroad Honors

Lee E. Klaus (8115-1) has taken top honors in the National Model Railroad Association's freight car division for his model of a Southern Pacific narrow gauge boxcar. The same car placed first recently in the Pacific Coast Region of the NMRA. A photo of the winning model appears in the current issue of the "Model Railroad Craftsman."



**CHARLES C. CAMPBELL**, Manager, Sandia Area Office is behind the Eight Ball as Andrew A. Walker, Chief of the SAO Security Branch presents him with the AEC-ALO security symbol "Chipalo" holding an eight-ball. The Sandia Area Office recently adopted a practice of giving Chipalo and his burden to the SAO employee who has incurred the most recent security infraction. Said Mr. Campbell, "Since the only way I can find Chipalo a new home is for someone else in SAO to have an infraction, I hope the little beast makes his permanent home with me." Mr. Campbell's office has the most recent security infraction in ALO—and this was acquired over a year ago.

### 8220 Picnic

Department 8220 held its annual picnic at the Alameda County fair-ground in Pleasanton recently with 300 employees and families attending. Highlight of the afternoon was selecting the winners of the "Gorgeous Gam" contest for men. Bill Schmedding (8223-1), Bud Pearson (8222-2) and Ed Belden (8222-1) won sequined garters.

### On Board of Education

John A. Larned, AEC-ALO program coordinator at Livermore Laboratory, was recently appointed to fill a vacancy on the Alameda County Board of Education in Pleasanton township. He is secretary of the Amador Valley High School PTA and has children both in elementary and high school.

### Livermore New Homes

New home owners in the Livermore area are: Scottie (8124-1) and Blanche Romine (8232-1) moved into their new home at 1053 Aberdeen Ave. Jay Gilson (8153-2) and his family moved into their new house at 827 Jefferson Ave. He will have several other Sandians as neighbors with Don Bauman (8114-3) at 792 Jefferson; Alyce (8114-3) and C. A. Loveless (8153-1) at 774 Jefferson; and Charles Duffey (8152-2) at 943 Jefferson Ave.

Other new home owners: Robert Keller (8114-1) and his family at 1057 Lisbon St.; Ernest Simpson (8114-1) and his family moved into their new home at 821 Cortez Court; and Jack McFarlane (8114-1) moved his family into their new home at 1336 Enchanted Way, San Mateo.



**TWO WATERCOLORS** by Joseph McManus, supervisor of the Technical Illustrations Section (8114-5), were exhibited recently at the annual Livermore Art Association show. They are "Autumn" and "Monterey Wharf."

### Livermore Toastmasters Elect

Two Sandians were installed as officers of the Livermore Toastmaster Club, Oct. 12. Bob Dougherty (8141-1) is second vice president and Chet Tarne (8161-2) is treasurer of the club.

Anyone who is interested in joining the Toastmaster group should contact Bob or Chet for further information.

### At UCLA Course

L. F. Parman (3421) recently attended a two-week course at the University of California in Los Angeles on "Information Storage Retrieval."

### More New Homeowners

A surprise housewarming was given by members of 1423-1 and 1423-2 for R. W. Crain (1423), who moved into a new house at 2910 Virginia NE.

New home owners are Mr. and Mrs. H. C. Rumm, now living at 2720 Pennsylvania NE.

It was moving day recently for Betty Trump (3126 assigned to 5120), who now lives at 3624 Mary Ellen NE.

Enjoying their new home at 7811 Morrow Rd. NE are Mr. and Mrs. William Hughes (2243).



**SHARON WATSON** (8212-3) uses one of the 15 new Livermore Laboratory bicycles made available to employees for inter building use in Tech Area.

### Mountain Club Will Rough It at Brazos Canyon on Weekend

A weekend of roughing it at Brazos Box Canyon in the northern part of the state will highlight October plans of the New Mexico Mountain Club.

Zelma Beisinger (5126) will lead members and guests to this narrow, deep canyon Oct. 17-18. There will be excellent climbing as well as hiking.

On Sunday, Oct. 25, the destination will be Embudito Trail which runs along the western side of the Sandias. This trip will involve 8-10 miles of hiking.

Trips start from Nob Hill at 8 a.m.

## Ruth Farley Finds Russians Friendly, Libraries Excellent

Impressions obtained during two weeks in Russia have been discussed by Ruth Farley (3421-1) before the Albuquerque Library Association and several other groups recently.

As a member of a special tour for librarians, Ruth visited technical libraries in Leningrad and Moscow as well as the library of the International Atomic Energy Agency in Vienna, Austria, during her month-long European vacation this summer.

"Perhaps most outstanding," she recalled, "was the friendliness of the Russian people." Two of the American librarians spoke fluent Russian and whenever the group stopped on a street large crowds gathered. Frequent questions from the Russian bystanders were: "How much money do you make?" "How do you live?" "Do you own a car?" and "Why don't the Americans like Russians?"

"On the whole, the women were dressed very dowdy. Everywhere our fashionable American shoes with thin, high heels were the focal point of stares. Russian shoes are ugly, of poor quality and extremely expensive," Ruth said.

At the libraries the Americans were greeted at the door by a delegation and served refreshments. Chocolates were offered with great ceremony, which seemed odd to Ruth until she discovered that a small chocolate bar sold for the equivalent of 75 cents.

"Russian libraries were of high scientific quality and seemed to be well-staffed with trained personnel, apparently well paid," she explained. "The Library of Foreign Literature specialized in gathering publications from other countries and also promoted the study of foreign languages."

"I talked to the woman who headed the library. As evidence of her prestige in the Russian economy, she owned a country home, an apartment in town, an automobile, and dressed comparatively stylish."

Library buildings and equipment were quite another matter. "The old buildings were very old and the new buildings were already run down," she said. Book shelves were rickety, drawers did not fit in desks, furniture was shoddy.

Employees at the libraries were proud to show the Americans any accomplishments and they answered direct questions when they knew the answers. When they didn't wish to answer—or didn't know the answer—the stock reply was "the man who's in charge of that is on vacation." The Russians

never volunteered any information.

Moscow wasn't very glamorous for the tourist. The hotels are of mid-Victorian architecture and few elevators worked. Nightclubs offered a sad version of American jazz. Food was heavy and limited in variety. "Children's World," a department store specializing in garments and toys for youngsters, failed to offer a single tempting item.

Ruth did enjoy visiting the Hermitage in Leningrad, the former winter palace of the Czars which is used as a museum and art gallery—"The Versailles of Russia."

After flying from Leningrad to Moscow to Kiev on the new Russian jet planes, Ruth toured Austria, Italy and Switzerland. "The contrast was quite marked," she concluded.

## Safety Awareness of Glenn Haycock Prevents Accidental 'Hole in Head'

Glenn Haycock (4512) never walks out of the Millwright Section in Bldg. 887 without wearing his "hard hat." This safety awareness has paid off several times.

Glenn was opening a gantry crane last week when it slipped and the crane, which weighed 40 to 50 pounds, struck him on the head and the back of his neck. Because his head was protected by the hard hat, he was not hurt at all.

"It was the first time we had used this particular crane and we were unfamiliar with it," Glenn says. "When we found out why it slipped we fixed it so that it won't happen again."

He took off his hat and pointed to several dents and paint scratches. "I'm a tall man (6'3")," Glenn said, "and I'm always hitting my head on something."



**OVERHEAD BAR** of this gantry crane hit Glenn Haycock (4512) on the head and back of his neck when the crane slipped and fell. Hard hat Glenn is wearing prevented injury.

"Our whole shop is safety conscious and the supervisor, Louis Koehler, stresses safety at all times," he continued. "We all wear safety shoes, gloves and glasses if necessary, in addition to our hard hats."

The 14 men in the Millwright Section work throughout the Laboratory with heavy equipment.

### McClure to Speak At Colloquium Meet

Gordon McClure (5152) will speak on "High Voltage Gaseous Discharges" at the Sandia Research Colloquium meeting Wednesday, Oct. 21, in Bldg. 815.

Tickets are required for the meeting which begins at 9:30 a.m. Extra tickets may be obtained from Don Rauber (3423), ext. 35143.



**WEARING SAFETY GLASSES** prevented possible eye injury when tool bit broke on lathe operated by Tony Saavedra (4251-1), above.

Diane M. Martin (5132) to Staff Assistant, Tech.  
Kurt R. Baars (6021) to Staff Assistant, Admin.  
Robert A. Velasquez (3462) to Plate Maker  
Ruth N. Miller (2562) to Senior Clerk  
Gloria R. Toland (2721) to Record Clerk  
Cleo Westmark (3466) to Document Clerk  
Charlotte J. Gilmer (4131) to Payroll Clerk  
Q. Y. Rolloson (4131) to Payroll Clerk  
B. S. Cervantes (3422) to Typist  
Maridel M. Dyke (4431) to Service Clerk  
Helen M. Conklin (5241) to Data Reduction Clerk

### Safety Glasses Save Tony Saavedra From Possible Eye Injury

The chips in Tony Saavedra's safety glasses were barely noticeable. Yet, had the tiny pieces of steel which chipped his glasses pierced his eyes, Tony's vision could have been impaired or destroyed.

Tony, who works in Heavy Machine Section 4251-1, was operating a lathe when the accident occurred. An incorrectly mounted tool caused the tool bit to break and pieces of it flew up and struck his glasses.

"It's the first time something like this has happened to me in my two and a half years at Sandia," Tony says, "and I'm sure glad I had my safety glasses on."

## Promotions

David D. Kirk, Jr. (8114) to Staff Assistant, Sr. Draftsman  
C. O. Erickson (8114) to Staff Associate, Designer  
Charles F. Drummond (8114) to Staff Associate, Designer  
Tommy L. Bryant (8225) to Material Handler  
Franklin D. Bainter (8232) to Ozalid Operator  
Richard A. Lassen (8232) to Ozalid Operator  
Albert B. Harrison (8222) to Helper-Trades  
David E. Arnett (8222) to Helper-Trades  
Jessie E. Oden (8225) to Shipping & Receiving Clerk  
C. G. Widger (8212) to Secretarial Steno  
Jean H. Iverson (8233) to Asst. Editor  
W. S. Austin III (3466) to Document Clerk  
Carlston C. Luker (3466) to Document Clerk  
Ruth M. Vogt (4333) to Report Clerk  
Robert E. Ledbetter (4152) to Accounting Clerk  
Joyce A. Moore (8212) to Steno. Clerk  
Patricia S. Cooper (8212) to Steno. Clerk  
Carlene M. Mohr (8212) to Steno. Clerk  
Sallie G. Robertson (8212) to Steno. Clerk  
Janice L. Meamber (8212) to Typist Clerk  
Robert W. Blagg (4413) to Draftsman  
D. E. Samuelson (4413) to Draftsman  
William I. Zagar (4413) to Draftsman  
Leslie N. Schofield (5112) to Staff Assistant—Tech.  
Howard A. Romme (4152) to Staff Member, Admin.  
Robert D. Jones (1611) to Staff Associate, Tech.  
C. Leroy Sparks (1612) to Staff Associate, Tech.  
David K. McCoy (4131) to Staff Associate, Admin.  
Ernest W. Hall (4411) to Staff Associate, Designer  
Juan M. Sanchez (4574) to Janitor  
D. M. Hinchey (3126) to Secretarial Steno.  
Mary K. Wormeli (3126) to Steno. Clerk  
M. Ruth Simpson (3126) to Secretarial Typist  
M. A. Crawford (3126) to Secretarial Typist  
Joyce E. Scroggin (3126) to Secretarial Steno.  
M. E. Earnheart (4135) to Invoice Clerk  
C. Joyce Hemsing (3126) to Typist  
Richard L. Chapman (4152) to Accountant  
John R. Sinerros (4152) to Accountant  
Gerrude E. Geary (8732) to Typist  
Calla Ann Crepin (3151) to Staff Assistant, Admin.  
Rudy L. Raa (3443) to Staff Assistant, Admin.  
John Cotch (4514) to Jr. Tradesman  
Marshall L. Davis (3466) to Document Clerk  
Beatrice F. Dizek (4131) to Disbursement Aids Clerk  
Bettye R. Garrard (3131) to Steno. Clerk  
Kay Marie Graff (4151) to Accountant  
John R. Piri (4232) to Inspector  
A. L. Johnson, Jr. (1521) to Staff Assistant, Tech.



**BUTT FIRST** is the way you take a rifle out of an automobile Charlie Farmer says. He shows the obvious reason above why barrel first is a hazardous practice. Carry it empty, load later.



**NO HUNTER** would do what Jim is doing above. Always watch the barrel of your rifle and keep it out of the dirt. If it gets clogged, the gun will explode when it is discharged.



**NEVER LEAN** on a rifle as Charlie is doing here. He says that this kind of unthinking action comes when a tired hunter takes a few minutes rest but the danger is not worth the rest.

## Successful Deer Hunters Relate Safety Rules in Using Firearms

"From the Colorado Line to the Gila Wilderness" is the way Security Guards Jim Lossing and Charlie Farmer (3242) tell of their deer hunts in New Mexico. Both natives of the state, Jim and Charlie have successfully hunted deer since they were boys.

Charlie used to live in the Jemez Country and his first big kill was a bear when he was 15. "And I've bagged a deer every year I've hunted since," he said.

As Big Game season opens in the Blanco Area in the northern part of the state this week, hunters Jim and Charlie are carefully making preparations for their annual hunt.

"Too many hunting accidents have been caused in recent years by just plain carelessness," Jim says. "And lack of preparation," Charlie adds.

To illustrate their views, the guards agreed to show some of the "don'ts" of hunting to the Sandia Lab News. Accompanying photographs pinpoint dangers in handling firearms.

### Deadly Weapon

"The thing always to remember," Jim says, "is to treat any firearm as the deadly weapon it is. Never load it until you leave camp, leave it on safety until you are ready to use it, and always unload it at least 100 yards before you come back to camp."

"It's always a good idea," Charlie says, "to sight in the rifle before you go on a hunt. Find a good open area and completely check the gun. This saves a lot of time and is much safer than trying to zero in the rifle in the brush where you'll probably be hunting."

Both hunters believe in preparing fully before the hunt. Camp supplies include either a trailer or tent, plenty of food in case they get snowed in, several changes of warm clothing, a gasoline lantern, and always a flashlight.

"Some hunters prefer to wear bright yellow coats when hunting," Jim says, "but Charlie and I like red ones. It doesn't really matter as long as the jacket is either a bright red or yellow. And a white handkerchief moving in the woods looks at first glance like a deer's tail. I always use a red one."

### Leave Clean Camp

"Leave a clean camp," Charlie says emphatically. "Leaving rubbish in the woods besides being against the law is discourteous to other campers and a hazard to wildlife."

"When leaving camp," Jim says, "always tell the others where you will be. It's always a must, too, to let your family know where your camp will be located. This is extremely valuable information in cases of emergency."

Both men use telescopic sights



**WHEN WALKING** with a hunting partner watch the barrel of that rifle. Here Charlie Farmer shows what carelessness could do. The unsuspecting back belongs to Jim Lossing, who is carrying his rifle correctly.

on their rifles. "You don't shoot cows or people if you can recognize them," Jim says.

When they make their kill, both men believe in quickly cleaning the carcass to prevent spoilage.

### 'Dead' Deer Dangerous

"As a man who almost got clobbered," Charlie says, "I know that a 'dead' deer can be dangerous." A wounded deer should always be approached with caution as well as a seemingly dead one. Freak shots can sometimes merely knock an animal unconscious and he will be a dangerous animal when reviving.

## Long Year of Hard Work Necessary Before Taking Private Pilot's Exam

Earning a private pilot's license is not an easy task, and Irene Kay (4131) can vouch for that.

Irene took her final examination last May and passed with flying colors, but it required almost a year of preparation.

In order to get her license she had to have a minimum of 40 hours in the air. "I had 55 hours which included a required five hours cross-country time with my instructor, 10 hours cross-country solo and 10 hours solo in the practice area," she said. It also took about 40 hours of ground school time.

After passing a three-hour written examination and getting a recommendation from her instructor that she was ready for the flight test, Irene took an FAA examiner for a ride. "He's the one



**CLIMBING THROUGH** a fence is dangerous proposition with a rifle. Above Jim shows what could happen when the hunter carries his rifle through with him. For absolute safety, carefully prop your rifle against the fence some distance away and retrieve it after you've crossed.

Services and Benefits Division 3122 has complete information on hunting regulations as well as maps showing dates of seasons in various parts of the state. The office is located in Bldg. 829, telephone ext. 26149.

### PRSA Elects Sherwin

Ted B. Sherwin, supervisor of Public Relations Division 3431, was elected president of the New Mexico Chapter of the Public Relations Society of America recently.

who finally gives you the ticket for your license," she said.

Irene's husband John, who works in 4413, also has his pilot's license. "He's the one who got me interested in flying," she says. "He owned a plane with several other men and when they got together all they talked about was flying. I finally decided to start taking lessons too."

Irene and John now own their own airplane, a Piper Tri-Pacer. They frequently take trips to El Paso, Phoenix and other areas in the Southwest.

Now that Irene has passed her first test, she's planning to get an instrument rating. This would enable her to fly when visibility conditions require the use of instruments.

## Technical Paper Activity Reported

Arrangements for publication and presentation of several technical papers by Sandia Corporation authors have been completed recently.

Appearing in the Quarterly Journal of the Royal Meteorological Society of England is a paper by B. N. Charles (5121). Title is "Utility of Stretch Vector Correlation Coefficients."

Edgar J. Gilbert (5125) is the author of "On the Identifiability Problem for Function of Finite Markov Chains" appearing in the current issue of Annals of Mathematical Statistics.

"Vacillating Wave Results from Electric Field and Powder-Filled Dielectric" is the title of a paper by Jack Lohse and Milton Zimmerman (both 5131), which was published in the September issue of the Journal of Applied Physics.

J. M. Wiesen (1592) presented "Reliability of Electronic Systems" to the Joint Student Branch of the American Institute of Electrical Engineers at the University of Kansas Oct. 8.

"An Approach for Evaluating One-Shot Device Sampling Plans" by B. A. McDonald (2561-4) will be presented at the Western Regional Quality Control Conference in Phoenix, Ariz., Oct. 23-24.

At the same conference, "Rescue Sampling Plans" will be presented. Co-authors are T. C. Preston and W. H. Robertson (both 1592).

## Livermore Table Tennis Tourney Nearing Finals

Eight teams have achieved the quarter finals in the 1959 Table Tennis Doubles Tournament at Livermore Laboratory.

Quarter finalists are Howie Smyth (8232-1) and Truman Casson (8116-2), Roy Wilcox (8114-1) and Bob Eisle (8114-2), J. A. Kersey and J. D. Porter (8123-1), R. D. Cozzo and E. E. Smith (8152-1), R. C. Keller and E. J. Simpson, Jr. (8114-1), R. J. Toockey (8123-2) and Ira B. Ward (8121-1), Neil Givens and Frank Cupps (8233-1) and Mike T. Ferrario and Al Scott (8114-1).

## Sandians Participate In Placement Program

"Management Potential" was the theme of the Rocky Mountain College Placement Association's annual meeting which was held at the University of New Mexico last week.

Brian Finley (3111) was co-chairman of the two-day meeting, along with UNM's Placement Director Robert Lalicker. Brian is the elected industrial representative to the national organization, the College Placement Council.

Jack Merillat (3151) assisted Brian in planning for the conference.

Bob Harks (3466), Bill Gardner (3151) and John Wheeler (3121) participated in four skits, which were satires on interviewing and hiring techniques.

A group of approximately 80 placement representatives toured Sandia Laboratory's Area III facilities on Thursday afternoon.

## Supervisory Appointment

P. D. "Pat" Gildea to supervisor of newly-created Section 8143-1 of the Project Engineering Division 8143.



Pat joined Livermore Laboratory in September 1956 as a mechanical engineer in a project engineering division. He received his MS degree in mechanical engineering from the University of California at Berkeley in August 1956.

From 1953 to 1955 Pat served in the U.S. Army. Prior to his military service he worked for General Electric Company in Cincinnati.

Pat is a member of the American Society of Mechanical Engineers.

## 2 Million Man-Hours Worked Safely at Livermore Laboratory

Congratulations were extended to all employees of Livermore Laboratory by R. E. Poole, vice president at Livermore, in recognition of 2,000,000 man-hours worked without a disabling injury.

In a memorandum to all Livermore supervisors, Mr. Poole said in part: "Actually, while the record itself is important, the facts which go into making it are much more significant. The record indicates that each employee had the intelligence and the time necessary to prevent serious injury to himself and others with whom he works, and through doing this, avoided completely the innumerable and undesirable personal consequences that result from an on-the-job injury."

Livermore Laboratory employees have now worked more than 1330 days without a disabling injury.

## Hunters Have More Targets Than Ever As Season Opens

This year, more than ever, hunters are urged to make sure their target is really a deer. The pinon crop is unusually good this fall and even in remote mountain areas there may be individuals, even entire families, gathering the tiny nuts. Chances are these individuals may not be wearing bright colored clothing. Hunters should be more cautious than ever.

### Elected PTA President

Robert C. Spence has been elected president of the Sandia Base Elementary School Parent-Teacher Association for 1959-60.

Bob, who has been at Sandia Laboratory 11½ years, is supervisor of Telemetering Systems Division 5223.



**FEMININE FLYER**, Irene Kay (4131), feels right at home in this Piper Tri-Pacer, which is like one she and her husband John (4413) own. Irene was granted her private pilot's license last May.



**SIDEWALK CAFE STYLE** lunch on Livermore Laboratory's new patio is enjoyed by (l to r) E. A. "Skip" Baca (8232-2), Barbara Reitz (8233-2), Truman Casson (8116-2), Alice Loveless (8114-3).

## New Look For Livermore Lab As Recreation Facilities Completed

The Livermore Laboratory technical area is taking on a new look as noon-hour recreational facilities for employees are being completed.

Just opened is a large concrete patio with tables and chairs for use by the brown bag set and sunshine seekers.

Adjoining the patio will be a putting green and shuffleboard courts. A second patio is planned west of Bldg. 916.

Elsewhere in the technical area a softball diamond is ready for use and playing equipment may be obtained from Jack Bonetti (8212-2). Tennis and basketball courts are expected to be finished

shortly. Horseshoe pits near all buildings in the area will complete the picture.

Plans for the recreation facilities were worked out by the Employee Service, Wage and Records Section (8212-2) and the Plant Engineering Division (8221).

Persons wishing to form teams to use the new athletic facilities may add their names to lists maintained by Employee Services.

## 35 Donors Needed To Establish Blood Bank at Livermore

More than 65 Livermore Laboratory employees have volunteered to date to donate blood in a drive to form a Livermore Laboratory Blood Bank for employees and their dependents.

One hundred donors are needed to establish the bank and 150 pints will be required to maintain an adequate reserve, according to Jack Bonetti (8212-2). Employee Service, Wage and Records Section will administer the bank.

The blood bank will provide blood without charge to the employee or his dependents, Jack said, but it must supply two pints to replace each pint used. The extra pint will cover the processing and administrative costs of operating the blood bank. The bank will be operated by the Alameda-Contra Costa Medical Association.

Without a blood bank, blood would cost \$34.50 a pint, or \$6.90 if the employee was covered by the Sandia Health Care Plan.

Donations to the bank will be made on Nov. 6, at the E. O. Lawrence Radiation Laboratory cafeteria where a mobile unit of the Alameda-Contra Costa Medical Association will be set up.

Subsequent drives will be conducted annually, or more often if necessary, to replenish the bank's supply, Jack said.

Prospective donors are asked to contact Section 8212-2 by Oct. 23 so that necessary arrangements can be made.

## 'New' Ancient Auto Causes Scurry When Terry Cowles Drives Surrey

"Chicks and ducks and geese better scurry."

"When I take you out in the surrey . . ."

This song has proved mighty popular with Terry Cowles (AEC), who just won a replica of an early 1900 Surrey automobile in a drawing at Galles Motor Co.

The two-seater car is chain driven and is steered by a wagon-type handle coming up from the center of the floor board. Featuring two forward and one reverse gears, the open-air Surrey also has turn indicators, a hand brake, electric starter and sealed beam headlights.

"They claim top speed is 35 miles per hour, although I haven't driven it that fast," Terry says. The gas tank holds two gallons

and Terry can supposedly travel 130 miles on a full tank.

Powered by a scooter motor which is located in a compartment over the rear axle, the car also uses a 6 volt battery, although there is no generator.

When Terry took his new car over to the Provost Marshal's office to get a base decal, he caused quite a stir. Since there is no windshield on the car, he had no place to put his decal. After much discussion, the Provost Marshal decided he could put it on the front of his car.

After owning his Surrey for two days, Terry had taken 55 passengers for rides and used 42 cents worth of gasoline. His license plates cost him \$3.00 and he also has a brake and light sticker taped to his "steering wheel."



Terry Cowles (AEC)  
—Surrey and no fringe on top—

## Livermore Employees Asked to Help in Public School Survey

The Livermore public schools have asked Livermore Laboratory employees to participate in a survey to determine the number of students who qualify as children of federal employees.

Under the provisions of Public Law 874, which defines federal employees as those who work or live on government property, Sandians qualify.

The survey will be made on Oct. 30, 1959 and Mar. 31, 1960. Necessary forms will be distributed to students for parents to fill out. One form will be required for each student attending the public schools.

## Department 5120 Conducts Seminar

A seminar in "Stationary Time Series — Methods and Applications" is currently being conducted by Systems Analysis Department 5120. Sessions of the seminar are held Friday afternoons in room 279, Bldg. 836.

The seminar deals with the theory of stochastic processes and applications in meteorology, theory of turbulence, communication theory, oceanography, geophysics and seismology.

Sandians desiring to participate in the seminar should contact one of the coordinators — Julius Blum, Ed Gilbert or Bert Koopmans (all 5125).



**NEWLY-ELECTED OFFICERS** of Sandia Toastmasters Club No. 765 are shown above. They are (seated, l to r): Bob Sylvestre (2543), administrative vice president; Bob Quinlan (1322), president; John Mitchell (3121), secretary; (standing, l to r): Lee Deeter (1540), installer; Art Kellom (1247), sergeant-at-arms; Bob Nelson (4421), retiring president, and Rudy Baca (3443), treasurer. The group meets on Thursday evenings at 6 p.m. at the Coronado Club.

## Welcome Newcomers

Sept. 28-Oct. 9

|                                  |        |
|----------------------------------|--------|
| Albuquerque                      |        |
| Lester M. Bierly                 | 4574   |
| *Cecilia N. Candelaria           | 3126   |
| Wayne E. Cornwell                | 3464   |
| Charles W. DeMoss                | 4224   |
| Raymond V. Fisher                | 1225   |
| Linda D. Gill                    | 3126   |
| *Arthur L. Gregory               | 4574   |
| Jane M. Guth                     | 3126   |
| Dorothy S. Jones                 | 3464   |
| Gordon D. Jones                  | 4171   |
| Elma S. Kingstrom                | 3126   |
| Ruth L. Lachman                  | 3126   |
| Floy W. Lanegan                  | 3126   |
| Dorothy M. Lee                   | 3466   |
| Doris L. Mortensen               | 3126   |
| Lucille E. Nohl                  | 3126   |
| Celso F. Padilla                 | 4574   |
| Marjorie I. Reams                | 2711   |
| Louis A. Sanchez                 | 3464   |
| *Rita Sanchez                    | 3126   |
| Judy G. Siede                    | 3126   |
| Carl E. Smith                    | 5513   |
| Sally C. Snow                    | 3126   |
| Jo B. Tierney                    | 3364   |
| Betsy M. Walker                  | 4314   |
| Laura K. Ward                    | 4135   |
| Arizona                          |        |
| Wesley C. Gerard, Tempe          | 4120   |
| Arkansas                         |        |
| Morse O. Hunsucker, Hot Springs  | 4543   |
| California                       |        |
| Julia J. Radcliffe, Pittsburg    | 8212-3 |
| Anna M. Decker, San Leandro      | 8212-3 |
| Katherine Klus, Livermore        | 8212-3 |
| Dwayne Pool, Brentwood           | 8232-1 |
| Michigan                         |        |
| Stanley De Vault, Dearborn       | 3211   |
| New York                         |        |
| Harold E. Lockwood, Rochester    | 5216   |
| Ohio                             |        |
| Albert D. Paterson, Coshocton    | 5223   |
| Pennsylvania                     |        |
| Guillaume P. De Vault, Bethlehem | 5731   |
| Texas                            |        |
| Mike C. Gruber, Fort Worth       | 8122-1 |
| Washington                       |        |
| Arthur E. Thomas, Kirkland       | 8162-2 |
| * Denotes rehired                |        |
| Returned from Leave              |        |
| Betty J. Bosworth, Albuquerque   | 3126   |
| Carol G. Spencer, Albuquerque    | 3126   |
| Violet L. Foderaro, Albuquerque  | 3111   |

## Top Movies On Sandia's Noon Hour Programs

Sandia Laboratory's noon hour movie schedule for the coming two weeks is:

**Oct. 19-20-21**

"Stairway to Heaven" with David Niven and Kim Hunter.

**Oct. 22-23**

"Brainwashing" — (Twentieth Century TV Series)

**Oct. 26-27-28**

"Man of a Thousand Faces" with James Cagney and Dorothy Malone.

**Oct. 29-30**

"Deported" with Jeff Chandler and Marta Toren.

All movies start at 12:10 p.m. in the Sandia Base Little Theater which is located south of the Sandia Base Military Cafeteria. Average duration of showings is 35 minutes.

## Calendar

### Scientific and Technical Meetings

**Oct. 20**  
Institute of Aeronautical Sciences  
Kirtland Officers Club  
Social Hour, 6 p.m. Dinner 7 p.m., (\$2.50)  
Technical Meeting: 8 p.m.  
Speaker: Dr. William R. Lovelace II  
Topic: Interrelation of the Life and Physical Sciences in Manned Space Flight  
For more information call R. E. Tate (5144), AX 9-6813

**Oct. 23**  
American Institute of Industrial Engineers  
Fiesta Room, La Placita  
Dinner: 6 p.m.  
Technical Meeting: 7 p.m.  
Speaker: Robert A. Scudder, Director, Sales Development, Standard Register Co., Dayton, Ohio  
Topic: "New Techniques in Data Processing"  
For reservations contact J. W. Sims (4111), Ext. 31173 or AL 5-6967 before noon, Oct. 22

**Oct. 27**  
American Meteorological Society  
UNM Administrative Building  
Election of Officers  
Technical Meeting: 7:30 p.m.  
Speaker: Gordon Miller (5243)  
Topic: Preliminary Results of Comparative Tests at Salton Sea  
For more information call Hugh Church (5111), Ext. 33184

**Oct. 27**  
Institute of Radio Engineers  
Sandia Base Officers Club, Mesa Lounge  
8 p.m.  
Speaker: Dr. Alma S. Wittlin  
Topic: Science Clubs and Museums  
For reservations contact Nick Bourgeois (1414), Ext. 48244.  
(Joint meeting with wives)

**Oct. 30-31**  
Society of Technical Writers and Editors, Albuquerque Chapter  
Civic Auditorium Lecture Hall  
First STWE Southwestern Regional Workshop  
Theme: More Effective Technical Communication for the Military User  
For more information call H. C. Sieberman (5233), Ext. 44151



**SHOWING OFF** their new bowling trophies, winners of the Sandia mixed handicap summer league at Livermore are: (first row, l to r) Glen Funk (8162-2), Allan Scott (8114-1), Gail Butler (LRL), Sharon Watson (8212-3), Dorothy Ponts-

ler, wife of Billy Pontsler (8141-1), Les Peterson (8152-1), Bert Folks (8161-2); (second row, l to r) Carl Furnberg (8152-1), Bob Bailey (8114-2), Charles Comito (8114-1), Bob Eisele (8114-1) and Ed Daugs (8141-1). Fall series started Sept. 10.

## Safety Meetings Lead to Devising New Tool Bit Cover to Prevent Injuries

When an accident hazard exists, it's better to do something about it than ignore the situation until an accident occurs.

For some time minor injuries had occurred in Mechanical Department 4250 when men operating lathes would receive punctures or scratches from the sharp bit when stopping to examine objects being shaped.

Although not serious, the injury sometimes required the employee to be temporarily assigned different work and the danger of infection was present.

The problem was discussed several times during the regular Monday morning safety meetings. Men of Section 4254-1 tackled the problem and experimented with a variety of protective covers made from metal, putty and plastic. The most satisfactory turned out to be a small cube of molded rubber with three size holes on different sides. These holes will fit over tool bits of a variety of lathes, mills, drill presses and other machine shop tools.

Plastics Section 4224-2 made a few of the protective covers about six months ago and gradually adds to the supply as needed.

"The covers are not required,"

## E. L. Deeter Elected To National ISA Committee Position

E. L. Deeter (1540) was elected to membership on the national nominating committee of the Instrument Society of America during its convention in Chicago last month.

Mr. Deeter was instrumental in starting the Albuquerque Section of ISA several years ago and served as its president for two years.

In 1957 he was elected vice president of the national society.

A. C. Taylor, supervisor of Project

Shops Division B (4254), said, "but the men in 4250 are using all the covers we have available."



**SAFETY HAZARD** from sharp bit on lathe is shown by Earl G. Smith (4254-1). Picture below shows bit covered by rubber cube which is used to prevent scratches and punctures.



## Basketball Umps Needed

Employees interested in officiating or keeping score for Sandia Laboratory basketball games are asked to contact George Banos (3122), ext. 29157.

Season play is not expected to begin until the first of December, George says, but a Basketball Clinic for officials will be held shortly.

## 2500-2700 Team Leads League in Flag Football

The 2500-2700 team combination, led by Charles Salazar (2722), continues to pace the Sandia Corporation Flag Football League. Last Saturday they disposed of the 2200-4200-4500 team by a score of 22-0.

The 1200-1300-1400-1500 group was finally dropped from the undefeated ranks by a speedy 3400 aggregation.

Three games are played every Saturday morning at the Sandia Base Military baseball diamond beginning at 8:15 a.m. Games for the coming two weeks are:

| Oct. 17 |                                  |
|---------|----------------------------------|
| 8:15    | 2200-4200-4500 vs 5100-5200-5300 |
| 9:30    | 1600 vs 3400                     |
| 10:45   | 2500-2700 vs 4400-5500           |
| Oct. 24 |                                  |
| 8:15    | 3400 vs 5100-5200-5300           |
| 9:30    | AEC-4100 vs 4400-5500            |
| 10:45   | 1200-1300-1400-1500 vs 2500-2700 |

| Standings as of Oct. 10 |     |      |      |
|-------------------------|-----|------|------|
| Team                    | Won | Tied | Lost |
| 2500-2700               | 3   | 1    | 0    |
| 1200-1300-1400-1500     | 2   | 0    | 1    |
| AEC-4100                | 2   | 0    | 1    |
| 3400                    | 2   | 0    | 2    |
| 4400-5500               | 1   | 0    | 1    |
| 1600                    | 1   | 0    | 2    |
| 5100-5200-5300          | 0   | 0    | 3    |
| 2200-4200-4500          | 0   | 0    | 3    |

## C. W. Franz Named To FCC Test Post

Carl W. Franz (1321-1) has been appointed Custodian for Radio Amateur License examination material of the novice, technician and conditional class of licenses. Carl, whose call numbers are W5ZHN, was named by the Federal Communications Commission.

Those who are authorized under FCC rules and regulations to witness such examinations may obtain the necessary papers by contacting him at Ext. 32165 or CH 3-3110.

## Sandia Service Awards

10 Years



Roy K. Smeltzer 3422 Oct. 10, 1949



Kenneth G. Overbury 1651 Oct. 17, 1949



Frank F. Francis 5531 Oct. 18, 1949



John W. Hatcher 4514 Oct. 18, 1949



Milan M. Lettrich 8211 Oct. 18, 1949



Thomas E. Dadian 8115 Oct. 19, 1949



Harold L. Rarrick 3361 Oct. 19, 1949



Robert D. Flaxbart 4570 Oct. 20, 1949

## Coronado Club Calendar For October Includes Dances, Buffet Dinner

Two Halloween dances and a buffet-dinner dance highlight the Coronado Club schedule for the remainder of the month.

The monthly buffet will be held tomorrow evening, followed by dancing to the music of Bud Fischer's orchestra. An added feature will be entertainment by the dancing teams: Mike Haley and Shirley Werner, Kim Hainer and Karen Kreuger.

A teen-age Halloween costume ball is slated for Friday, Oct. 30, from 8 to 11 p.m. with prizes for the best costumes.

The following day, Oct. 31, a Halloween costume ball is scheduled with dancing to Jimmy Caldwell's band. Festivities start at 9 p.m.



Hovey C. Sealey, Jr. 3242 Oct. 20, 1949



Dale W. Goens 4224 Oct. 24, 1949

Five Years

Oct. 18-30

Cecelia R. Pacheco 3126, John I. Malpas, Jr. 4254, Emilio Chavez 3242, George W. Henfling 3442, James J. Clemons 4411, Jerome P. Rynders 2561, Jessa C. Bozone 5524.  
James H. Brewer 2713, Lucille H. Long 2222, Chester L. Janus 2723, Marie B. Stone 3466, Henry R. Aira 4241, Ray O'Neal 5261, Judith R. Klassen 4152.  
Helen S. Sanchez 4131, Edward S. Grymkowski 4253, Myrtle E. Mauldin 5511, Louis J. Rosnoski 5544, Clarys I. Pine 4170, Joseph W. Weihe 5122, Celso Z. Sanchez 2227.  
W. E. Lauterbach 2723, Claude C. Ankeny 4411, John S. Colburn, Jr. 1615, Clarence R. Mehl 5111, Robert F. Patton 1432, Dawn A. Calek 4110, Robert E. Crow 8212.

### SHOPPING CENTER

#### CLASSIFIED ADVERTISING

Deadline: Friday noon prior to week of publication unless changed by holiday.

#### RULES

1. Limit: 20 words
2. One ad per issue per person
3. Must be submitted in writing
4. Use home telephone numbers
5. For Sandia Corporation and AEC employees only
6. No commercial ads, please
7. Include name and organization.

#### FOR SALE

DINING TABLE, blond, not a scratch on it, 2 leaves, seats 6 without leaves. Kerns, AL 5-1450.  
GARAGE OVERHEAD DOOR and hardware, \$35. Kindschi, AL 6-0531, 1040 Princeton NE.  
GENTSCH HIDE-A-BED, practically new. Crocker, DI 4-0031.  
17 FT. FOLD BOAT w/air tanks, paddles & small motor, stows easily in car trunk, \$175. Pederson, AX 9-3624.  
4 BRM HOME (3027 Sierra NE), 1 1/2 baths, redecorated, 25 sprinklers, 8 fruit trees, 9x40 veranda, AC, available now, \$14,000. Phillips, ext. 46284.  
'54 CHEVROLET sedan delivery, heater, turn signals, heavy duty bumper. Clyde, AL 5-6805.  
6 FT. GLASS DOOR, new and complete, \$100. Abeyta, AX 9-4757 after 5 p.m.  
2-WHEEL SCOOTER for child, \$4. Fletcher, ext. 3-5135.  
16 INCH TRICYCLE; 3-seat rackaway; portable clothes washer. Grassham, AL 5-9183.  
DINETTE SET, 4 chairs, beige, gold trim, Formica top, \$39; 17 inch Emerson television, console, beige, \$45. Heineman, AL 6-6387.  
PIANO, Baldwin Acrosonic, ebony, four yrs. old, save \$260. Risse, AX 9-5002.  
FENCE, vertical one-by-fours, 155 ft. including two gates, 42 inches high, \$55. Graeber, ext. 48276, 3171 41st Place, Sandia Base.  
BED, mahogany, w/double dresser and mirror, \$50; two living rm. chairs, \$15 ea.; one lawn mower w/catcher, \$5. Smith, AL 5-5470.  
LADIES DRESS FORM, size 14, \$10. Smith, AX 9-6873.  
BOAT, 12 ft. Luger Cadet runabout w/trailer, used 3 times, \$300. Roy, CH 3-3936.  
UPRIGHT PIANO, \$150. Gallegos, AX 9-7270, 1409 Guaymas Pl. NE.  
6 YEAR CRIB, trade for studio couch, bed divan; net formals, ballerina, size 9, best offer or trade. Jolley, DI 4-0724, 3002 Sierra Dr. NE.  
KELVINATOR ELECTRIC RANGE, oven w/broiler, deep well, \$35. Pederson, AX 9-5539.  
FURNITURE, living rm., kitchen & brm; Amana freezer; '59 Ford Country sedan, less than 6,500 miles; no trade. Burbidge, ext. 32289.

AMATEUR RADIO RECEIVER, National NC-300, \$275. Wilson, ext. 42242.  
ALLSTATE SCOOTER, \$70 or best offer. Loux, AX 9-6728, 2012 Erbbe NE.  
'58 STAUFFER REDUCING COUCH, w/automatic timer; Oard, AL 6-2697 after 5 p.m.  
GARAGE DOOR (single), \$40; 45 revolver, \$25; box spring & mattress, \$15 & \$30; D-Frost-O-Matic, \$5. Aaron, BUTLER 2-3124.  
MOUNTAIN CABIN, Sandia Park, one acre, beautiful view, large fireplace, pine paneled, 560 sq. ft., near pavement, has electricity. Willis, AX 9-9285.  
'57 MOTOR SCOOTER, Cushman Highland, \$150. Marsh, AX 9-0688, 1139 Lester Dr. NE.  
'41 CHEVROLET, motor & transmission recently rebuilt, make offer. Hobart, AX 9-2698.  
RIFLE, 270 cal 70 Winchester K.-25 w/scope & sling, \$120; bullet sizer & lubricator, No. 45, \$12; GE cartridge RPX050A, \$4. Zownir, AL 6-3717.  
GUNS: 16 ga. single shot shotgun & ammo, \$25; 7.5mm French rifle & some ammo, \$15. Scranton, AX 9-4902, 2522 Gen. Bradley NE.  
'40 CHEVROLET 1/2 ton pick-up, \$150. Rehberg AL 5-6705.  
'59 IMPALA Sport Sedan, powerglide, V-8 engine, PS & PB, R & H, etc. Grubbs, AL 5-0172.  
'50 CHRYSLER, 4-dr. sedan, 6 cyl., R&H, \$150. Warren, CH 2-8564 after 5:30 p.m.  
6 ROOM HOME, Roberson, pitched roof, 1 1/2 baths, w/w carpeting, AC, landscaped patio, custom drapes. Few, AX 9-6915, 2027 Altez St., NE.  
BABY CRIB; car seat; walker; toidee seat; 45-RCA record player. Gray, AL 6-1560.  
OAK DESK, 34 x 60 inches, typewriter well, 4 drawers, \$30. Smith, AM 8-1349.  
STOVE; refrigerator; sewing machine; and variety of furniture. Stephenson, AX 9-9114.  
RUGER, .22 automatic pistol, 4 inch barrel, holster, fired only 200 rounds, below wholesale. Strawderman, AX 9-7548.  
PLAY PEN; jump chair; car seat; car bed; stroller; bottle sterilizer; rose trellis; Aras C3 camera outfit. Scheiber, AX 9-4743, 8117 Hannett NE.  
GIBSON GUITAR, \$55; Westinghouse electric oven, \$12.50; child's rocking horse, \$2; utility step stool, \$4. Anderson, DI 4-5094.  
17 INCH PHILCO TV, new tubes except pic, needs work, \$20. Young, AL 6-9158.  
8mm CAMERA; H8 Bolex, 3 lens turret; 12.5mm f 1.8 Lytar lens; Preview View finder; new and guaranteed, 20% off list. Lenz, AL 6-7037.  
BATTERY CHARGER, 6 volt; clamp-on trailer hitch; \$5 ea. or both for \$7.50. Comstock, AX 9-6051.  
'56 FORD V-8, 4-dr. Mainline, standard transmission, R&H. By owner, \$1095. Bortniak, AL 6-3177.  
'52 CHEVY station wagon, 8 pass., R&H; also 2 new 750x14 snow tires, make offer. Hueter, CH 2-1620.  
'57 RAMBLER 4-dr. station wagon, TG, Autom. Trans., reclining seats, good gas mileage, ideal fishing, hunting wagon. Sikkil, AX 9-3966, 1125 Grace NE.

#### NEXT DEADLINE

FOR SHOPPING CENTER ADS  
Friday Noon, Oct. 23

ELECTRIC STOVE, apt.-size Monarch, \$30; 16 inch table model TV, \$20 or best offer. Class, AX 9-6648.  
ICE SKATES, girl's figure skates, size 6, \$10. Bode, AM 8-2157.  
BED, 38 inch Hollywood, w/mattress, springs, blond plastic headboard, wood legs, mattress pad, \$35. Cowan, AL 5-6949.  
AUTOMATIC WASHER, Kenmore, \$50; matching coffee & corner tables, blond, \$10 ea. Hamilton, AX 9-6680.  
'57 VW sedan, white walls, leatherette upholstery, radio, \$1395. Hankins, AL 6-9538 after 5:30 p.m., 632 San Pedro SE.  
'56 OLDSMOBILE 88 Holiday, 4-dr., RHW, PB & PS, one owner. Burnett, AM 8-3227.  
3 BRM HOME, family rm. w/fireplace, sliding glass doors, electric kitchen, carpeting throughout, double garage, AC, etc., \$24,700. Chandler, AL 5-2652.  
2 BRM HOME, LR & BR carpeting, pitched roof, walled backyard, lawn w/shade trees, \$10,700, FHA commitment. Garcia, AL 5-6929, 628 Maderia SE.  
'59 FIAT Bianchina w/sport engine, 21 hp, 40 mpg, \$1195. Mullin, AL 5-9194.  
CAR RADIO w/antenna (originally for '46 Chevy), \$5. Harks, AX 9-4843.  
TWO HEAD BOARDS, twin size, \$5 each; two coil springs, twin size, \$5 each; Hollywood bed metal frame, adjustable, \$5. Hesselbarth, AL 6-1720.  
3 BRM HOME w/den, large rooms, walk-in closets, HW floors, WB fireplace, coved ceilings, patio, walled, ceramic tile kitchen, \$12,500. Jolly, CH 3-9737, 1444 Saunders SW.  
'56 FORD convertible, orange and white, auto. trans., R&H, power steering, w/w, \$1350 or best offer. Dougherty, CH 7-8326.  
AIR PISTOLS, 22 cal., Bensamin, \$5; Crassman, \$7; 36' chicken wire, \$2; electric meter base, conduit and weather-head, 1", \$3. Scott, AX 9-3412.  
MOVIE PROJECTOR, Bell & Howell model 253A, \$45. Strome, AL 6-3324, 1811 Lafayette NE.  
BENDIX WASHER, Economat, needs new pump, \$30; Kodaslide merit projector, \$10. Holmes, DI 4-6995.  
VARIABLE POWER RIFLE scope, brand new, 4x to 9x, \$72. Connally, AL 6-3275 after 5.  
DUNCAN PHYFE drop-leaf mahogany table, \$12; desk, solid, hard maple Kling, new \$44.50 or both for \$50. Pinrek, AX 9-5601, 2920 Avenida Nevada NE.  
REFRIGERATOR - FREEZER combination, double door, 12 cu. ft. GE, magnetic doors. \$100. Maric Chef Gas Range, automatic, \$65, both for \$145. Pyetzkil, AL 5-1453 after 5.  
21" TV Console, Mahogany cabinet, \$75. Large, AX 9-7848, 1524 Martha NE.

3 BRM HOME, 1 1/4 baths, den, laundry, dining room, electric wall oven, carpeting, walled, sprinklers, garage, lawn, Snow home. Layton CH 7-4638, 2041 Jensen NE.  
21" TV, '52 Crosley Console, mahogany finish needs a picture tube, best offer. Timmons, AL 5-5933, 1835 Solano Dr. NE.  
15' TRAILER, Shasta, \$740, bathinette, jumper seat, car seat, cheap. Stixrud, DI 4-7873.  
'54 M-SYSTEM Trailer, automatic washer, front and rear bedrooms, full bath, \$2800 cash. Young, AM 8-0489, 905 Adams SE.  
GOLF CLUBS, Kroydon, Tommy Bolt, matched set of 9 irons and 4 woods, new, never used in original carton, retail \$200, priced to sell. Ruff, Ext. 48190.  
3 BRM HOME, paneled den, 1 1/2 baths, garage, air conditioned, landscaped, near schools, shopping centers, \$1,750 down new FHA, \$13,350, make offer. Summers, AX 9-4674.  
S&W K-38 Pistol, \$65; 800-38 Brass, \$19, belt and holster, \$14, loading equipment, \$23. Lietzman, AL 6-1932.  
'57 MGA Coupe, wire wheels, R&H, w/w, driving lights, completely equipped, clean, will sell or trade. Van Fleet, AM 8-0730 after 5.  
2 BRM HOME, tile bath, HW floors, weatherstripped, aluminum awnings, insulated garage, walled yard, sprinklers, \$12,500. Lee, 1613 Wilmoore SE, CH 2-5505.  
LIVING ROOM SUITE, 2 piece; bedroom suite, double bed, spring, mattress & chest, kneehole desk, coffee table, two end tables. Libby AM 8-2025.  
MUSKRAT FUR COAT, 3/4 length, mink-dyed, size 18. Wagner, AX 9-2347.  
DIVAN, \$15; 5-drawer chest, \$12; stroller, \$6. Blomberg, AX 9-7404.  
'58 OLDSMOBILE, Super 88, 4-door sedan, \$2100, R&H, hydramatic, one owner, low mileage. Kelly, DI 4-3317, 4209 San Andres NE.  
CRIB AND MATTRESS \$15; playpen, \$5; car bed, \$3; high chair, \$5. Witeck, AX 9-6878, 10406 Towner NE.  
'49 FORD, 2-door sedan, V-8 with over-drive, \$200 or best offer. Martinez, AM 8-4282.  
'48 FORD Deluxe, 2-door sedan, R&H, needs paint, \$110. Mack, Ext. 25269.  
'53 OLDS 98, 4-door, power brakes, steering, 2-tone green, \$450; 2 blond end tables coffee table, lamp table, \$20. Cherb, AL 5-1891, 1151 Hermosa Dr. SE.  
ELECTRIC GUITAR, Gibson, case and cord, blond Spanish type, \$185. McDermott, Ext. 22155.  
ICE SKATES. Canadian Flver, 1 pair, child size 12, \$5; 1 pair girl's size 4, \$5, both white shoe type. Eadar AL 5-9070.  
'54 JEEP Station Wagon, 4-wheel drive, heater, etc.; '57 Di Ville Camper trailer, 17 ft.; Remington slide action 30-06. Ewina, AL 5-1958.  
'56 FORD V-8 Customline, std. shift, one owner, 37,000 miles, good mileage. Delfer, AX 9-0773.  
PUPPIES, AKC registered French Poodle, whelped Sept. 9, available Oct. 21. Hannah, AM 8-1932.

'53 CHEVROLET, 4-dr., R&H, 2-tone, standard shift, white wall tires, 58,000 miles, \$500. Leonard AX 9-4684 1505 Betts NE after 5 p.m.  
'48 JEEP, 4 wheel drive, open, new overhaul, \$600. Pritchard, AL 6-5667.  
GARAGE DOOR, metal w/hardware, \$25; garage door hardware, \$5; 6 & 12 volt dynamotors; Motorola car radio, \$12. Eagan, AL 5-6820.  
**WANTED**  
HOMES for medium-sized puppies, part collie. Beattie, ext. 2-5168, 623 11th NW.  
WELDING outfit, mitre box and chain hoist. Aaron, BUTLER 2-3124.  
FEMALE COMPANION to share home with widow, Heights location. Andrews, AL 5-3668.  
TO TRADE one baby car bed for one book of gold bond stamps. Cockrill, AM 8-5502, 2900 Dakota NE.  
CHILD CARE of one child in my home weekdays; will baby sit nights in your home; near bases. Rose, AL 5-6155.  
TO TRADE 1 Coleman floor furnace 55,000 BTU complete for camping equipment or carpenter tools. Ramirez, 1005 San Lorenzo NW, DI 4-1159.  
USEABLE ARTICLES for rummage sale for benefit of children in Los Lunas Hospital & Training School. Abeyta, AL 5-3262 or AL 5-3669.  
**FOR RENT**  
2 BRM HOME near Lomas-San Mateo, water, garbage paid, \$95 mo. or \$90 on year lease, available Oct. 15. Norvill, AL 5-2787.  
MOUNTAIN CABIN, furnished, efficiency style, suitable for bachelor(s); North Highway 10, 17 mi. from base, \$60/month, utilities paid. Miller, ext. 33138.  
**LIVERMORE FOR SALE**  
'57 CORVETTE hardtop, white w/red upholstery, 220 h.p., 3-speed box, R&H, \$2995. Gallagher, HI 7-5907 after 5 p.m.  
KENMORE DELUXE STOVE, fully automatic, \$75. Tooker, HI 7-3383 after 5 p.m.  
21" PACKARD-BELL TV-console, blond finish. Stewart, HI 7-3697.  
FREEZER, chest type, 15.5 cubic ft., \$125; Kenmore automatic washer, 6-month warranty, \$75; Silvertone table radio, \$20. Henderson, HI 7-4417.  
3 BRM HOME, 2-car garage, fireplace, insulated, 20x20 patio. Assume 4 1/2% GI Loan, \$13,000 - \$73/monthly payments. Lloyd, HI 7-1875.  
**LOST AND FOUND**  
LOST: Bulova white gold watch w/2 diamonds, engraved "forever yours" on back; prescription glasses w/brown frames in blue snap case; Parker S1 pen; brown sports jacket lost 2-3 months ago; sunglasses w/silvered upper lens; Hamilton gold watch; billfold w/ID of G. M. Baca. Lost and Found, ext. 26149.  
FOUND—Gold wedding band; 50 Millioner German coin found in Area 3; tan button from woman's coat; keys in red case; sunlasses w/brown frames; slide rule in leather case marked Douglas Sky Rule; handmade Mexican silver cuff link. Lost & Found, ext. 26149.

# Intricate Woodwork of Pattern Shop Important Sandia Service



**HUGE CYLINDRICAL** pattern, 55 inches in diameter, is "turned" in a gap bed lathe by Karl McGinnis. The ring of wood will be securely glued to others and further worked as a complete unit.



**ESTABLISHING CONTOUR** stations in a laminated pattern prior to machining is J. J. Atencio. He is precision measuring the piece with a micrometer. Contour forming is mainly a hand operation using a template for continuous checking of accuracy.

## Pilot Secretary Course Given at Livermore Lab

An advanced course in Secretarial and Clerical Proficiency is being given to a pilot group of 16 secretaries at Sandia Corporation's Livermore Laboratory.

The 30-hour course, taught by Jean Gillette of the General Training and Education Division (3132), started Oct. 15 and will conclude Oct. 23. It includes such topics as basic principles of communicating with other people, job responsibilities, problem solving and decision making, on-the-job relations and adjustment problems.

## Computing Machinery Group Meets Oct. 29

Program arrangements for the annual meeting of the Rio Grande Chapter of the Association for Computing Machinery are being made by Don Morrison (5126). As Chairman Elect, Mr. Morrison will take over the reins of the organization at the meeting, which will be held Oct. 29 at Holloman AFB near Alamogordo.

Frederica Vook (5126) will present "A Faster Way to Compute Sines and Other Functions" during the program.

The chapter includes members from New Mexico, Arizona and El Paso County, Texas.

"To begin with, a pattern maker is not a carpenter," says B. C. McKay, supervisor of the Pattern and Foundry Section (4221-4). As pictures on this page show, a pattern maker works with wood to produce intricate configurations that will be used to form the mold for casting metal.

As the products of Sandia's Development Shops cover a tremendous range of sizes and shapes, so do the products of the Pattern Shop which serves the larger organization.

"A pattern maker," Mr. McKay continues, "spends several years learning his trade. He has to be an expert woodworker as well as knowing machining procedures and casting processes in a foundry."

The pattern shop divides its time between producing full scale preliminary design study models and patterns for foundry casting, according to Mr. McKay. The models are valuable in designing "fittings" for the weapon to be carried by aircraft, handling studies, and other engineering and development work. Patterns for castings range from small precision pieces to huge cylindrical shapes for tracking telescopes.

The pattern maker starts his work from finished machine drawings. He converts these to a series of wood segments, cuts and shapes the segments, and glues the pieces together for final shaping.

He utilizes a number of different types of wood in his work. Tolerances are held to the maximum of the material. The shop has produced jobs that were within .002 inch tolerance.

The finished pattern is a beautiful piece of work. The craftsmen utilize the grain of the wood to flow in opposing directions in the different segments. This lamination adds strength and rigidity to the finished piece that allows the wood to be machined into intricate contours and configurations.

Machining operations of a pattern maker differ from a machinist in that pattern making requires greater hand control of the shaping operation. He makes a template from the drawings for the contour and continually checks the work against it. He gradually shapes the wood piece to size using the template as a guide.



**GIANT RINGS** shown in this photo will be laminated together to form a single pattern. Richard B. Hicks checks grain structure and joint positions in the rings prior to the gluing operation.



**CAREFULLY** marking wooden pattern is Thomas Mickey. The piece will be cast for a control mount for a tracking telescope.

When preparing his "layout" on the wood to be shaped the pattern maker keeps in mind that eventually the finished piece will be made of metal and that metal shrinks while cooling. His wooden pattern is measured with the "shrink" rule that compensates for the shrinkage of the metal to be used.

As he produces the finished patterns he gives Sandia designers the first physical visualizations of their work, an important service to design engineers.

Pattern makers have a creed. Part of it is reprinted here: "A pattern maker is an exalted craftsman. He must have the creative conception of a draftsman designer, the practical ability of a moulder, the precise skill of a machinist, the analytical judgment of a metallurgist and the specific exactness of a mathematician."



**NEARLY COMPLETED** tracking telescope mount pattern receives finishing touches from James Reed. Grain structure flowing in the circles is clearly visible in this photograph. Wood is Honduras mahogany, the hardest and most stable wood from which to machine and shape patterns.



Sandia Corporation Has Worked  
89 Days  
Without a Disabling Injury

## HERE'S WHY...

Sandians know even a familiar object in an awkward location can be a possible safety hazard. Keep file drawers pushed in when not in use, chairs out of aisles and sharp objects well-protected.